

Connector Technical Data

SEALING MATERIALS

NBR (ex. Perbunan)

Synthetic rubber used for parts with high resistance to fuels, oil, fat and aliphatic solvents at high temperatures. The durability of the material can be carried by the compounds used during manufacture, to protect against ozone or the prevailing environmental conditions.

O-Rings are used in various applications ex. electrical and automotive industry, hydraulics, mechanical engineering, oil industry for membranes, fuel hoses, seals, formed items, plate gaskets, etc.

Typical applications: Seals and gaskets for rectangular connectors and glands.

FPM (ex. Viton)

This fluoroelastomer is commonly used for rubber parts and withstands fuel, oil, lubricants, many acids and chemicals during extreme thermal stress. Viton also has good mechanical qualities, flame resistance and high durability against ozone and environmental impacts of every kind.

Typical application: Seal in circular connector type A and glands.

CHEMICAL, THERMAL & MECHANICAL VALUES

Abbreviation	NBR	FPM
Commercial Name	Perbunan N Hycar	Viton/ Fluorel
Shore A hardness range at standard solid quality tolerance $\pm 5^\circ$ Shore approx	25 to 40	60 to 90
Tear strength N/ mm ² bei +20°C to	Approx 20	Approx 17
General weather-resistance	good	excellent
Ozone resistance	satisfactory	excellent
Resistance to oil	excellent	excellent
Resistance to fuel	good	excellent
Resistance to solvent	partially good	very good
General resistance to acids	satisfactory	very good
Temperature resistance: a) Short-term: prox b) Long-term: prox	-40°C to 150°C -30°C to 120°C	-30°C to 280°C -20°C to 230° C
Vapor resistance	good	satisfactory to good
Can be supplied in food packaging products	yes	no